

Claims

1. Radiation-curable composition, comprising (a) at least one (meth)acrylated styrene allyl alcohol copolymer obtained from the (meth)acrylation of a styrene allyl alcohol (SAA) copolymer with (meth)acrylic acid and/or one or more alkyl(meth)acrylates, and (b) at least one alkoxylated acrylated monomer.
2. Composition according to claim 1, comprising 10-90% by weight (meth)acrylated SAA copolymer and 10-90% by weight alkoxylated (meth)acrylated monomer, each based on the total weight of the (meth)acrylated SAA copolymer and alkoxylated (meth)acrylated monomer.
3. Composition according to any of the preceding claims, wherein the alkoxylated (meth)acrylated monomer is selected from the group consisting of alkoxylated tri(meth)acrylates, alkoxylated diol di(meth)acrylates, preferably alkoxylated (meth)acrylated bisphenol A derivatives, more preferably oxyethylated.
4. Composition according to claim 3, wherein the alkoxylated (meth)acrylated monomer is selected from the group consisting of ethoxylated glycerol tri(meth)acrylates, propoxylated glycerol tri(meth)acrylates, ethoxylated neopentylglycol di(meth)acrylates, propoxylated neopentylglycol di(meth)acrylates, ethoxylated trimethylolpropane tri(meth)acrylates, propoxylated trimethylolpropane tri(meth)acrylates, (meth)acrylated bisphenol A ethoxylates, (meth)acrylated bisphenol A propoxylates, alkoxylated ditrimethylolpropane tetra(meth)acrylates, alkoxylated pentaerythritol tetra(meth)acrylates and alkoxylated dipentaerythritol penta/hexa (meth)acrylates.
5. Composition according to any of the preceding claims, further comprising one or more compounds selected from pigments, photoinitiators, and ink additives, such as stabilizers, substrate wetting agents, anti-foam agents, adhesion promoters, dispersing agents etc.
6. Process of preparing a radiation-curable composition, comprising the steps of
 - a) admixing a styrene allyl alcohol (SAA) copolymer with at least one alkoxylated polyol and
 - b) in-situ (meth)acrylating the mixture obtained under a).

7. Radiation-curable composition obtainable by the process of claim 6.
8. Use of the radiation-curable composition as claimed in any of claims 1-5 or 7
5 as ink vehicle or ink.
9. Polymeric composition obtainable by curing the radiation-curable composition as claimed in any of claims 1-5 or 7.
10. 10. Substrate partially or entirely coated with the polymeric composition as claimed in claim 9.